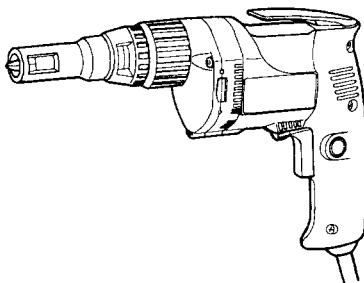


# HITACHI

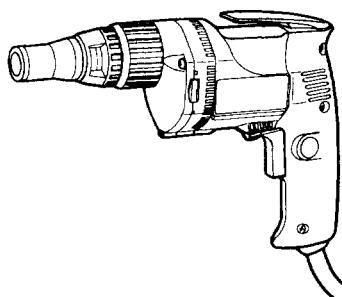
MODEL  
MODÈLE  
MODELO

W 6V3 • W 6VA3  
W 6VB2 • W 8VB

SCREW DRIVER  
VISSEUSE  
ATORNILLADOR



W6V3 • W6VA3



W6VB2 • W8VB

## INSTRUCTION MANUAL AND SAFETY INSTRUCTIONS

### **WARNING**

Improper and unsafe use of this power tool can result in death or serious bodily injury!

This manual contains important information about product safety. Please read and understand this manual before operating the power tool. Please keep this manual available for others before they use the power tool.

## MODE D'EMPLOI ET INSTRUCTIONS DE SECURITE

### **AVERTISSEMENT**

Une utilisation incorrecte et dangereuse de cet outil motorisé peut entraîner la mort ou de sérieuses blessures corporelles!

Ce mode d'emploi contient d'importantes informations à propos de la sécurité de ce produit. Prière de lire et de comprendre ce mode d'emploi avant d'utiliser l'outil motorisé. Garder ce mode d'emploi à la disposition des autres utilisateurs avant qu'ils utilisent l'outil motorisé.

## MANUAL DE INSTRUCCIONES E INSTRUCCIONES DE SEGURIDAD

### **ADVERTENCIA**

¡La utilización inapropiada e insegura de esta herramienta eléctrica puede resultar en lesiones serias o en la muerte!

Este manual contiene información importante sobre la seguridad del producto. Lea y comprenda este manual antes de utilizar la herramienta eléctrica. Guarde este manual para que puedan leerlo otras personas antes de que utilicen la herramienta eléctrica.



DOUBLE INSULATION  
DOUBLE ISOLATION  
AISLAMIENTO DOBLE

<b>CONTENTS</b>	
<b>English</b>	
	<b>Page</b>
<b>IMPORTANT INFORMATION .....</b>	<b>3</b>
<b>MEANINGS OF SIGNAL WORDS .....</b>	<b>3</b>
<b>SAFETY .....</b>	<b>4</b>
<b>GENERAL SAFETY RULES .....</b>	<b>4</b>
<b>SPECIFIC SAFETY RULES AND SYMBOLS .....</b>	<b>7</b>
<b>DOUBLE INSULATION FOR SAFER         OPERATION .....</b>	<b>8</b>
<b>FUNCTIONAL DESCRIPTION .....</b>	<b>9</b>
<b>NAME OF PARTS .....</b>	<b>9</b>
<b>SPECIFICATIONS .....</b>	<b>9</b>
	<b>Page</b>
<b>ASSEMBLY AND OPERATION .....</b>	<b>10</b>
<b>APPLICATIONS .....</b>	<b>10</b>
<b>PRIOR TO OPERATION .....</b>	<b>10</b>
<b>HOW TO USE THE SCREW DRIVER ...</b>	<b>12</b>
<b>MOUNTING AND DISMOUNTING         THE HEX-SOCKET OR BIT .....</b>	<b>13</b>
<b>MAINTENANCE AND INSPECTION ....</b>	<b>14</b>
<b>ACCESSORIES .....</b>	<b>15</b>
<b>STANDARD ACCESSORIES .....</b>	<b>15</b>
<b>OPTIONAL ACCESSORIES .....</b>	<b>15</b>
<b>PART LIST .....</b>	<b>48</b>

Français	TABLE DES MATIERES		
	Page	Page	
<b>INFORMATIONS IMPORTANTES .....</b>	17	<b>ASSEMBLAGE ET FONCTIONNEMENT ....</b>	25
<b>SIGNIFICATION DES MOTS</b>		<b>APPLICATIONS .....</b>	25
<b>D'AVERTISSEMENT .....</b>	17	<b>AVANT L'UTILISATION .....</b>	25
<b>SECURITE .....</b>	18	<b>COMMENT UTILISER LA VISSEUSE ..</b>	27
<b>REGLES GENERALES DE SECURITE .....</b>	18	<b>MONTAGE ET DEMONTAGE DU MANCHON</b>	
<b>REGLES DE SECURITE SPECIFIQUES ET SYMBOLES ..</b>	22	<b>SIX PANS OU DE LA MECHE .....</b>	28
<b>DOUBLE ISOLATION POUR UN</b>		<b>ENTRETIEN ET INSPECTION .....</b>	29
<b>FONCTIONNEMENT PLUS SUR .....</b>	23	<b>ACCESOIRES .....</b>	30
<b>DESCRIPTION FONCTIONNELLE .....</b>	24	<b>ACCESOIRES STANDARD .....</b>	30
<b>NOM DES PARTIES .....</b>	24	<b>ACCESOIRES SUR OPTION .....</b>	30
<b>SPECIFICATIONS .....</b>	24	<b>LISTE DES PIECES .....</b>	48

<b>ÍNDICE</b>	
Español	Página
<b>INFORMACIÓN IMPORTANTE</b>	32
<b>SIGNIFICADO DE LAS PALABRAS DE SEÑALIZACIÓN</b>	32
<b>SEGURIDAD</b>	33
NORMAS GENERALES DE SEGURIDAD	33
NORMAS Y SÍMBOLOS ESPECÍFICOS DE SEGURIDAD	37
AISLAMIENTO DOBLE PARA OFRECER UNA OPERACIÓN MÁS SEGURA	38
<b>DESCRIPCIÓN FUNCIONAL</b>	39
NOMENCLATURA	39
ESPECIFICACIONES	39
<b>MONTAJE Y OPERACIÓN</b>	40
APLICACIONES	40
ANTES DE LA OPERACIÓN	40
COMO USAR EL DESTORNILLADOR	42
MONTAJE Y DESMONTAJE DEL PORTATORNILLOS HEXAGONAL O DE LA BROCA	44
<b>MANTENIMIENTO E INSPECCIÓN</b>	45
<b>ACCESORIOS</b>	46
ACCESORIOS ESTÁNDAR	46
ACCESORIOS OPCIONALES	46
<b>LISTA DE PIEZAS</b>	48

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## IMPORTANT INFORMATION

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Read and understand all of the operating instructions, safety precautions and warnings in the Instruction Manual before operating or maintaining this power tool.

Most accidents that result from power tool operation and maintenance are caused by the failure to observe basic safety rules or precautions. An accident can often be avoided by recognizing a potentially hazardous situation before it occurs, and by observing appropriate safety procedures.

Basic safety precautions are outlined in the "SAFETY" section of this Instruction Manual and in the sections which contain the operation and maintenance instructions.

Hazards that must be avoided to prevent bodily injury or machine damage are identified by **WARNINGS** on the power tool and in this Instruction Manual.

Never use this power tool in a manner that has not been specifically recommended by HITACHI, unless you first confirm that the planned use will be safe for you and others.

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## MEANINGS OF SIGNAL WORDS

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**WARNING** indicates a potentially hazardous situations which, if ignored, could result in serious personal injury.

**CAUTION** indicates a hazardous situations which, if ignored, could result in moderate personal injury, or could cause machine damage.

**NOTE** emphasizes essential information.

# SAFETY

## **GENERAL SAFETY RULES**

### **WARNING: Read and understand all instructions.**

**Failure to follow all instructions listed below, may result in electric shock, fire and/or serious personal injury.**

## **SAVE THESE INSTRUCTIONS**

### **1. Work Area**

- (1) Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.
- (2) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** Power tools create sparks which may ignite the dust or fumes.
- (3) Keep bystanders, children, and visitors away while operating a power tool.** Distractions can cause you to lose control.

### **2. Electrical Safety**

- (1) Double Insulated tools are equipped with a polarized plug (one blade is wider than the other.)** This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way. Double Insulation  eliminates the need for the three wire grounded power cord and grounded power supply system.
- (2) Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is grounded.
- (3) Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- (4) Do not abuse the cord.** Never use the cord to carry the tools or pull the plug from a receptacle. **Keep cord away from heat, oil, sharp edges or moving parts.** Replace damaged cords immediately. Damaged cords increase the risk of electric shock.
- (5) When operating a power tool outside, use an outdoor extension cord marked "W-A" or "W".** These cords are rated for outdoor use and reduce the risk of electric shock.

### **3. Personal Safety**

- (1) Stay alert, watch what you are doing and use common sense when operating a power tool.** Do not use tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.

- (2) **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair can be caught in moving parts.
- (3) **Avoid accidental starting. Be sure switch is off before plugging in.** Carrying tools with your finger on the switch or plugging in tools that have the switch on invites accidents.
- (4) **Remove adjusting keys or wrenches before turning the tool on.** A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.
- (5) **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.
- (6) **Use safety equipment. Always wear protective glasses.** Dust mask, non-skid safety shoes, hard hat, or ear plugs must be used for appropriate conditions.

#### 4. Tool Use and Care

- (1) **Use clamps or other practical way to secure and support the workpiece to a stable platform.** Holding the work by hand or against your body is unstable and may lead to loss of control.
- (2) **Do not force tool. Use the correct tool for your application.** The correct tool will do the job better and safer at the rate for which it is designed.
- (3) **Do not use tool if switch does not turn it on or off.** Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- (4) **Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool accidentally.
- (5) **Store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
- (6) **Maintain tools with care. Keep cutting tools sharp and clean.** Properly maintained tools, with sharp cutting edges are less likely to bind and are easier to control.
- (7) **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tools operation. If damaged, have the tool serviced before using.** Many accidents are caused by poorly maintained tools.
- (8) **Use only accessories that are recommended by the manufacturer for your model.** Accessories that may be suitable for one tool, may become hazardous when used on another tool.

#### 5. Service

- (1) **Tool service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified personnel could result in a risk of injury.

**(2) When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual.** Use of unauthorized parts or failure to follow Maintenance Instruction may create a risk of electric shock or injury.

**6. Never touch moving parts.**  
Never place your hands, fingers or other body parts near the tool's moving parts.

**7. Never operate without all guards in place.**  
Never operate this tool without all guards or safety features in place and in proper working order. If maintenance or servicing requires the removal of a guard or safety feature, be sure to replace the guard or safety feature before resuming operation of the tool.

**8. Use right tool.**  
Don't force small tool or attachment to do the job of a heavy-duty tool.  
Don't use tool for purpose not intended — for example — don't use circular saw for cutting tree limbs or logs.

**9. Never use a power tool for applications other than those specified.**  
Never use a power tool for applications other than those specified in the Instruction Manual.

**10. Handle tool correctly.**  
Operate the tool according to the instructions provided herein. Do not drop or throw the tool. Never allow the tool to be operated by children, individuals unfamiliar with its operation or unauthorized personnel.

**11. Keep all screws, bolts and covers tightly in place.**  
Keep all screws, bolts, and plates tightly mounted. Check their condition periodically.

**12. Do not use power tools if the plastic housing or handle is cracked.**  
Cracks in the tool's housing or handle can lead to electric shock. Such tools should not be used until repaired.

**13. Blades and accessories must be securely mounted to the tool.**  
Prevent potential injuries to yourself or others. Blades, cutting implements and accessories which have been mounted to the tool should be secure and tight.

**14. Keep motor air vent clean.**  
The tool's motor air vent must be kept clean so that air can freely flow at all times. Check for dust build-up frequently.

**15. Operate power tools at the rated voltage.**  
Operate the power tool at voltages specified on its nameplate.  
If using the power tool at a higher voltage than the rated voltage, it will result in abnormally fast motor revolution and may damage the unit and the motor may burn out.

**16. Never use a tool which is defective or operating abnormally.**  
If the tool appears to be operating unusually, making strange noises, or otherwise appears defective, stop using it immediately and arrange for repairs by a Hitachi authorized service center.

**17. Never leave tool running unattended. Turn power off.**

Don't leave tool until it comes to a complete stop.

**18. Carefully handle power tools.**

Should a power tool be dropped or struck against hard materials inadvertently, it may be deformed, cracked, or damaged.

**19. Do not wipe plastic parts with solvent.**

Solvents such as gasolie, thinner, benzine, carbon tetrachloride, and alcohol may damage and crack plastic parts. Do not wipe them with such solvents.

Wipe plastic parts with a soft cloth lightly dampened with soapy water and dry thoroughly.

---

**SPECIFIC SAFETY RULES AND SYMBOLS**

- 1. Hold tools by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord.** Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.
- 2. Wear ear plugs when using the tool for extended periods.** Prolonged exposure to high intensity noise can cause hearing loss.
3. Employ a driver bit appropriate for the screw diameter.
4. Apply the screw driver body perpendicularly to a screw head when driving a screw.
5. Definitions for symbols used on this tool

V ... volts

Hz ... hertz

A ... amperes

no ... no load speed

W ... watt

... Class II Construction

- - /min ... revolutions per minute

## **DOUBLE INSULATION FOR SAFER OPERATION**

To ensure safer operation of this power tool, HITACHI has adopted a double insulation design. "Double insulation" means that two physically separated insulation systems have been used to insulate the electrically conductive materials connected to the power supply from the outer frame handled by the operator. Therefore, either the symbol "□" or the words and "Double insulation" appear on the power tool or on the nameplate.

Although this system has no external grounding, you must still follow the normal electrical safety precautions given in this Instruction Manual, including not using the power tool in wet environments.

To keep the double insulation system effective, follow these precautions:

- Only HITACHI AUTHORIZED SERVICE CENTER should disassemble or assemble this power tool, and only genuine HITACHI replacement parts should be installed.
- Clean the exterior of the power tool only with a soft cloth moistened with soapy water, and dry thoroughly.  
Never use solvents, gasoline or thinners on plastic components; otherwise the plastic may dissolve.

**SAVE THESE INSTRUCTIONS  
AND  
MAKE THEM AVAILABLE TO  
OTHER USERS OF THIS TOOL!**

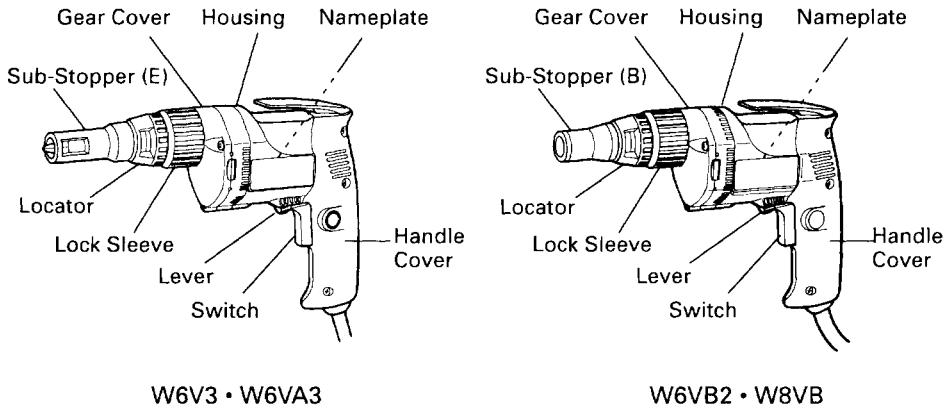
# FUNCTIONAL DESCRIPTION

## NOTE:

The information contained in this Instruction Manual is designed to assist you in the safe operation and maintenance of the power tool.

Some illustrations in this Instruction Manual may show details or attachments that differ from those on your own power tool.

## NAME OF PARTS



W6V3 • W6VA3

W6VB2 • W8VB

Fig. 1

## SPECIFICATIONS

Model	W6V3	W6VA3	W6VB2	W8VB
Motor	Single-Phase, Series Commutator Motor			
Power Source	Single-Phase, 115V 60 Hz			
Current		6.4 A		
No-Load Speed	0-4000/min.	0-2600/min.	0-1700/min.	
Capacity	Drywall screw 1/4" (6 mm)			
	Self-drilling screw 1/4" (6 mm)			
Weight	2.9 lbs (1.3 kg)		3.1 lbs (1.4 kg)	

# ASSEMBLY AND

## **APPLICATIONS**

- Tightening hex. head screws
- Tightening Drywall screws, wood screws and self-drilling screws

**NOTE:**

For tightening the Self-drilling screws, sub-stopper (B) and non-magnetic bit holder (sold separately) are recommended.

## **PRIOR TO OPERATION**

**1. Power source**

Ensure that the power source to be utilized conforms to the power source requirements specified on the product nameplate.

**2. Power switch**

Ensure that the switch is in the OFF position. If the plug is connected to a receptacle while the switch is in the ON position, the power tool will start operating immediately and can cause serious injury.

**3. Extension cord**

When the work area is far away from the power source, use an extension cord of sufficient thickness and rated capacity. The extension cord should be kept as short as practicable.

**⚠ WARNING: Damaged cord must be replaced or repaired.**

**4. Check the receptacle**

If the receptacle only loosely accepts the plug, the receptacle must be repaired. Contact a licensed electrician to make appropriate repairs.

If such a faulty receptacle is used, it may cause overheating, resulting in a serious hazard.

**5. Confirming condition of the environment:**

Confirm that the work site is placed under appropriate conditions conforming to prescribed precautions.

## 6. Confirm the direction of bit rotation (Fig. 2)

The bit rotates clockwise (viewed from the rear side) when the reversing switch lever is set to the "R" side position. When the lever is set to the "L" side position, the bit rotates counter-clockwise and can be used to loosen and remove screws.

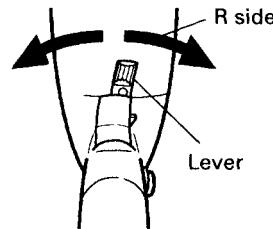


Fig. 2

**! CAUTION:**

**Never change the bit rotating direction while operating the Screw Driver. Turn the main switch off before changing the rotating direction, otherwise, burning of the motor will result.**

## 7. Adjusting the tightening depth (Fig. 3)

Pull the lock sleeve in the direction of arrow to remove it from the spline installed in the gear cover.

While pulling the lock sleeve and turning it right and left, adjust the position of locator. Push the lock sleeve and align the gear cover spline with the lock sleeve spline.

The lock sleeve can be inserted onto the gear cover spline and locked.

(1) For hex-head screws (Fig. 4)

Mount a hex-head screw on the hex-socket and set the distance between the sub-stopper end and the screw head neck to 0.04" – 0.06" (1 – 1.5 mm).

(2) For drywall screws (Fig. 5)

Mount a drywall screw on the bit, and set the distance between the sub-stopper end and the screw head to 0.06" – 0.07" (1.5 – 2 mm).

(3) For cross-recessed self-drilling screws (Fig. 6)

Mount a self-drilling screw on the bit, and set the distance between the substopper end and the screw head bottom to  $0.04" - 0.06"$  ( $1 - 1.5$  mm).

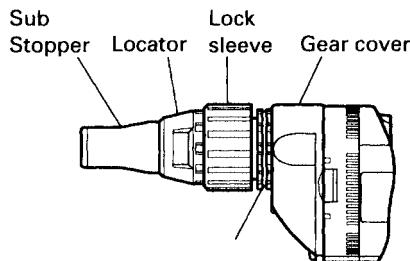
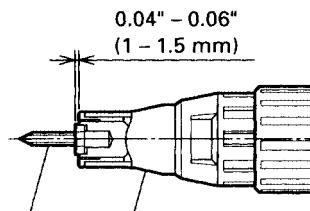


Fig. 3



Hex. head screw

Fig. 4

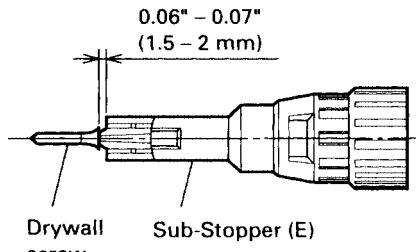


Fig. B

## 8. Mounting the bit

For details, refer to the item "Mounting and dismounting the hex-socket or the bit".

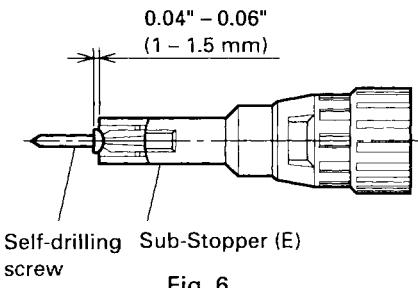


Fig. 6

## HOW TO USE THE SCREW DRIVER

### 1. Switch operation and rotational speed adjustment

Bit rotational speed can be adjusted between 0 – 4000/min (W6V3) or 0 – 2600/min (W6VA3, W6VB2) or 0 – 1700/min (W8VB) varying the degree by which the trigger switch is pulled. Rotational speed increases as the trigger switch is pulled, and reaches a maximum speed of 4000/min (W6V3) or 2600/min (W6VA3, W6VB2) or 1700/min (W8VB) when the trigger switch is pulled fully.

To facilitate continuous operation, pull the trigger switch and depress the switch stopper. The switch will then remain ON even when the finger is released. By pulling the trigger switch again, the switch stopper disengages and the switch is turned OFF when the trigger switch is released.

### 2. Screw Driver operation

When the switch is turned ON, the motor starts to run but the hex-socket (or the bit) does not rotate. Attach the hex-socket to the screw head groove, and push the Screw Driver against the screw. The hex-socket then rotates and tightens the screw.

#### **CAUTION**

Ensure that the Screw Driver is held truly perpendicular to the head of the screw. If held at an angle, the driving force will not be fully transferred to the screw, and the screw head and/or hex-socket will be damaged. Hex-socket rotation stops when pushing force is released.

### 3. Direction of hex-socket rotation

The hex-socket rotates clockwise (viewed from the rear side) when the reversing switch lever is set to the "R" side position. When the lever is set to the "L" side position, the hex-socket rotates counterclockwise, and can be used to loosen and remove screws.

#### **CAUTION**

Never change the direction of hex-socket (or bit holder) rotation while the motor is running. To do so would seriously damage the motor. Turn the power switch OFF before changing the direction of hex-socket (or bit holder) rotation.

#### 4. Tightening Self-drilling screw

When the supplied magnet bit holder is used to tighten the Self-drilling screw into a steel plate, cut material stuck in the magnet bit will degrade the work efficiency.

To prevent this, the non-magnetic bit holder (optional accessory) is recommended. The stainless locator with bushing (optional accessory) will prevent the bushing from being worn.

### MOUNTING AND DISMOUNTING THE HEX-SOCKET OR THE BIT

#### ⚠ CAUTION

**Be sure to switch power OFF and disconnect the plug from receptacle to avoid serious trouble.**

#### 1. Dismounting the hex-socket (Fig. 7)

- (1) While rotating the Sub-Stopper pull it out from the locator.
- (2) Remove the hex-socket, hold it with the opposite side of bit by hand or vise and pull out the bit with pliers.

#### 2. Dismounting the bit (Fig. 8)

Remove sub-stopper (A) as the same manner of hex-head socket and remove the bit holder, then pull out the bit with pliers.

#### 3. Dismounting the bit (Fig. 9)

Remove the sub-stopper (E) or (C) as the same manner of hex-head socket and remove the bit holder, then pull out the bit with pliers.

#### 4. Mounting the hex-socket or the bit

Install the bit in the reverse order to removal.

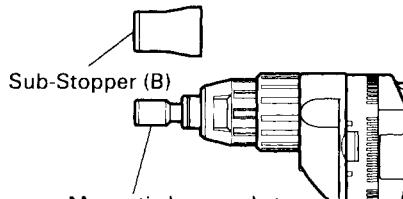


Fig. 7

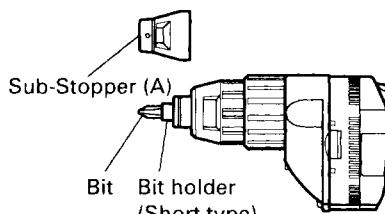


Fig. 8

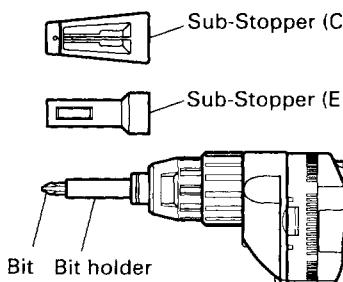


Fig. 9

# MAINTENANCE AND

**⚠ WARNING:** Be sure to switch power OFF and disconnect the plug from the receptacle during maintenance and inspection.

## 1. Inspecting the hex. socket (or bit):

Since continued use of a worn hex. socket (bit) will damage screw heads, replace the hex. socket (bit) with a new one as soon as excessive wear is noticed.

## 2. Inspecting the mounting screws

Regularly inspect all mounting screws and ensure that they are properly tightened. Should any of the screws be loosened, retighten them immediately.

**⚠ WARNING:** Using this screw driver with loosened screws is extremely dangerous.

## 3. Maintenance of the motor

The motor unit winding is the very “heart” of the power tool. Exercise due care to ensure the winding does not become damaged and/or wet with oil or water.

## 4. Cleaning the unit exterior

Wipe off oil and stain on the unit exterior with a dried rag or a rag moistened with soapy water.

## 5. Inspecting the carbon brushes

For your continued safety and electrical shock protection, carbon brush inspection and replacement on this tool should ONLY be performed by a HITACHI AUTHORIZED SERVICE CENTER.

## 6. Service and repairs

All quality power tools will eventually require servicing or replacement of parts because of wear from normal use. To assure that only authorized replacement parts will be used, all service and repairs must be performed by a HITACHI AUTHORIZED SERVICE CENTER, ONLY.

# ACCESSORIES

**⚠ WARNING:** Accessories for this power tool are mentioned in this Instruction Manual.

The use of any other attachment or accessory can be dangerous and could cause injury or mechanical damage.

**NOTE:**

Accessories are subject to change without any obligation on the part of the HITACHI.

## **STANDARD ACCESSORIES**

<W6V3 • W6VA3>

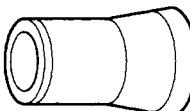
(1) No. 2 Phillips driver bit (Code No. 971511Z) .....	1
(2) Magnetic bit holder (Code No. 982554Z) .....	1
(3) Sub-stopper (E) (Code No. 318629) .....	1

<W6VB2 • W8VB>

(1) Magnetic hex. socket (H=5/16" (7.94 mm)) (Code No. 985322) .....	1
(2) Sub-stopper (B) (H=5/16" (7.94 mm)) (Code No. 317671) .....	1

## **OPTIONAL ACCESSORIES** .....sold separately

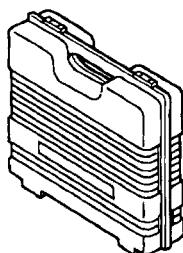
1. For hex-head screws

Hex-socket		Sub-Stopper (B)	
			
Magnetic type		Non magnetic type	
Size	Code No.	Size	Code No.
H 1/4	985322	H 1/4	985328
H 5/16	985322	H 5/16	985327
H 3/8	985330	H 3/8	985326
		Size	Code No.
		H 1/4	317827
		H 5/16	317671
		H 3/8	317670

## 2. For other screws

Screw head	Bit			Bit holder	Sub-Stopper
	Type	Size	Code No.		
⊕		No.1 No.2 No.3	985333 971511Z 971512Z		
		No.1 No.2	985334 985335		Sub-Stopper (A) (Code No. 317672)
⊖		No.1 No.2 No.3	985336 985337 985338		
		No.1 No.2	985340 985341		Sub-Stopper (C) (Code No. 317673)
		B Size 5/32" (4 mm) 13/64" (5 mm)	985342 985343		

## 3. Plastic case (Code No. 310504)

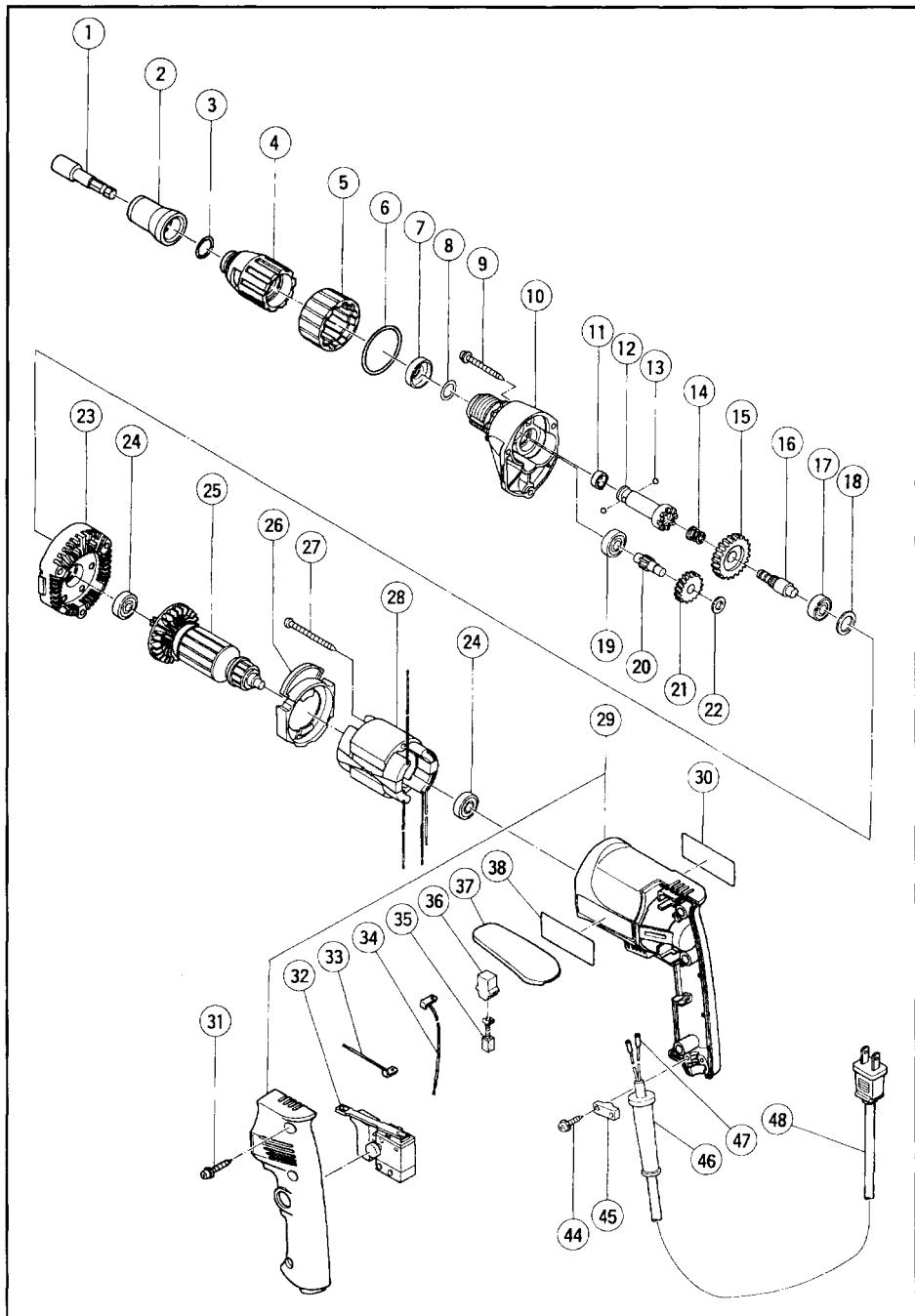


## 4. Hook (Code No. 950511)



## NOTE:

Specifications are subject to change without any obligation on the part of the HITACHI.



W8VB

Item No.	Part Name
1	Magnetic Hex. Socket
2	Sub Stopper
3	O-Ring (S-16)
4	Locator (A)
5	Lock Sleeve (A)
6	O-Ring (S-28)
7	Fringer (A)
8	O-Ring (F)
9	Tapping Screw (W/Flange) D4×40
10	Gerar Cover Ass'y
11	Set Ring
12	Socket (B) Ass'y
13	Steel Ball D3.175
14	Spring
15	Gear Ass'y
16	Gear Shaft
17	Ball Bearing (608VVMC2EPS2L)
18	Washer (A)
19	Ball Bearing (608VVMC2EPS2L)
20	Second Pinion Ass'y
21	First Gear
22	Washer
23	Inner Cover Ass'y
24	Ball Bearing (608VVMC2EPS2L)
25	Armature
26	Fan Guide (B)
27	Tapping Screw D4×50
28	Stator
29	Housing Handle Cover Set
30	Nameplate
31	Tapping Screw (W/Flange)D4×20

Item No.	Part Name
32	Speed Control Switch
33	Internal Wire (B) (Blue)
34	Internal Wire (B) (Brown)
35	Carbon Brush
36	Brush Holder
37	Hook (A)
38	HITACHI Label
44	Tapping Screw (W/Flange)D4×16
45	Cord Clip
46	Cord Armor
47	Tube (D)
48	Cord

Parts are subject to change without any obligation on the part of the HITACHI due to improvements.

The drawing and the list are parts structural drawing and parts list of model W8VB.

For other models refer to the drawing and the list.

# **Hitachi Koki Co., Ltd.**

Shinagawa Intercity Tower A, 15-1, Konan 2-chome,  
Minato-ku, Tokyo 108-6020, Japan

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Code No. C99099662 N  
Printed in Japan